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APPLICATION NO.	FILING DATE	FIRST NAMED INVEN	TOR	<u>A</u>	TTORNEY DOCKET NO.
09/320.271	05/27/99	WATANABE		j - j	990559
MMC170QC		MMC1/0927	\neg	EXAMINER	
ARMSTRONG WESTERMAN HATTORI MCLELAND & NAUGHTON 1725 K STREET NW SUITE 1000				LEE, C	
				ART UNIT	PAPER NUMBER
WASHINGTON DC 20006		1000		2825	
				DATE MAILED:	09/27/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Office Action Summary



Applicant(s)

Watanabe et al.

Examiner

Calvin Lee

Group Art Unit 2825



X Responsive to communication(s) filed on Aug 6, 1999							
☐ This action is FINAL.							
☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle35 C.D. 11; 453 O.G. 213.							
A shortened statutory period for response to this action is set to expire3 month longer, from the mailing date of this communication. Failure to respond within the period for application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained 37 CFR 1.136(a).	r response will cause the						
Disposition of Claim							
	is/are pending in the applicat						
Of the above, claim(s) <u>14-20</u>	_ is/are withdrawn from consideration						
Claim(s)	is/are allowed.						
	is/are rejected.						
⊠ Claim(s) <u>6</u>	is/are objected to.						
☐ Claims are subject to restriction or election requirement.							
Application Papers							
☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.							
☐ The drawing(s) filed on is/are objected to by the Examiner.							
☐ The proposed drawing correction, filed on is ☐ approved	_disapproved.						
☐ The specification is objected to by the Examiner.							
☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. § 119							
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).							
☑ All ☐Some* None of the CERTIFIED copies of the priority documents have been							
X received.							
received in Application No. (Series Code/Serial Number)							
☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received:							
☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
Attachment(s)							
Notice of References Cited, PTO-892							
Information Disclosure Statement(s), PTO-1449, Paper No(s)4_							
☐ Interview Summary, PTO-413							
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948							
☐ Notice of Informal Patent Application, PTO-152							
SEE OFFICE ACTION ON THE FOLLOWING PAGES							





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DETAILED ACTION

Election

Applicant's election without traverse of Group I, claims 1-13, filed on August 6, 1999 is acknowledged. Claims 14-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b) as being drawn to non-elected invention.

Double Patenting Claim Rejections - 35 5.8.6. \$ 101

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-5 and 7-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-12 of U.S. Patent No. 6,071,807. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons:

Watanabe's 807 teaches a method of modifying an interlayer insulation film provided between interconnections, wherein the insulation film is modified by implanting ions into the insulation film on a substrate, and the subsequent interconnection is formed by damascene technique. Claim 1 of





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Watanabe's 807 clearly suggests to introduce impurities into a first insulating film (8) overlying a substrate then to form a conventional first conductive layer (11) in the modified insulating film (see col. 6 line 6 through col. 7 line 22). The method can be repeated to fom a multilayer structure having second, third and fourth interconnections, as desired.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication from the Examiner should be directed to Art Unit 2825's Supervisory Patent Examiner *Matthew Smith* whose telephone number is (703) 308-1323. The Examiner is in the Office generally between the hours of 7:00AM to 4:00PM (Eastern Standard Time) Monday through Thursday.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956 or (703) 306-3329. The fax phone number for the Group is (703) 308-7722.

CL

September 25, 2000

MATTHEW SMITH
SUPERVISORY PATENT EXAMINER
FECHNOLOGY CENTER 2800